



**PRODUCT INFO
& DATASHEET**

SICO-MKP 0.52.34 Mono Potassium Phosphate

Type 1 Normal Technical grade – hot processed

Type 2 Superior Technical grade - hot processed (low As)

Type 3 Superior Technical grade – PPA process (very low H.M.)

Type 4 Technical grade – wet processed (low As)

min. 99% water soluble fertiliser

Made in China

Revised edition 19/09/2023

PRODUCT DESCRIPTION

Product name:	Mono Potassium Phosphate
Chemical name:	Phosphoric acid, Mono Potassium salt
Molecular formula:	KH_2PO_4
CAS number	7778-77-0
Molecular weight:	136
Test criteria:	HG2321-1992

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless or white crystal powder, easily soluble in water
Relative density:	2.338 g/cm ³
Melting point:	252.6 dgr. C.
pH of 1% solution:	4.3 – 4.8

SPECIFICATIONS

	Type 1 Normal Technical hot processed		Type 2 Superior Technical hot processed (low As) used esp. for production of liquids		Type 3 Superior Technical PPA process (low Heavy Metals)	
	Standard analysis	Test results on sample 5/2018	Standard analysis	Test results on sample 12/2017	Standard analysis	Test results on sample 9/2018
Main content	99% min.	99.1%	99% min.	99.2%	99% min.	99.31%
P ₂ O ₅ (Phosphorus Pentoxide)	52% min.	52.0%	52% min.	52.0%	52% min.	52.15%
K ₂ O (Potassium Oxide)	34% min.	34.0%	34% min.	34.0%	34% min.	34.12%
pH	4.3 - 4.7	4.5	4.3 - 4.7	4.5	4.3 - 4.7	4.3
Moisture	0.2% max.	0.15%	0.2% max.	0.17%	0.3% max.	0.2
Water insolubles	0.1% max.	0.1%	0.1% max.	0.05%	0.01% max.	0.008
Heavy metals						
- Lead (Pb)	100 ppm max.	55 ppm	20 ppm max.	10 ppm	20 ppm max.	10 ppm
- Arsenic (As)	100 ppm max.	50 ppm	20 ppm max.	3 ppm	20 ppm max.	3 ppm
- Cadmium (Cd)	100 ppm max.	60 ppm	20 ppm max.	8 ppm	10 ppm max.	1 ppm
- Mercury (Hg)	100 ppm max.	40 ppm	20 ppm max.	5 ppm	10 ppm max.	1 ppm
Salinity	20 ppm max.	11 ppm	20 ppm max.	10 ppm	20 ppm max.	10 ppm

We supply 4 types :

Type 1 Normal Technical grade (our normal export grade with As content 50-100 ppm max).

Type 2 Superior Technical grade, hot processed (with extra low As content 3-20 ppm max).

Type 3 Superior Technical grade, PPA processed (with very extra low heavy metals (Cd/Hg)).

Type 4 Technical grade, wet processed (with low As content 15-20 ppm max).

Superior Technical grades Type 2 & 3, produced by pure phosphoric acid 85% and KOH (potassium hydroxide) ion film, which is better than normal membrane, because a KOH ion film can select the good ions to prevent the heavy metal ions. This results in higher purity and lower heavy metals.

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SAP INTERNATIONAL CORPORATION bv Krekelenberg 83, B-2980 Zoersel, Belgium
Tel. +32-3-309.06.51 Email : info@sico.be Website : www.sico.be



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Please note some MKP's are produced by KCl, not KOH. KOH is more expensive than KCl (potassium chloride). KOH is produced from KCl.

APPLICATIONS

Mainly used as water soluble fertiliser. NPK raw material, used as a buffer, a synthetic clearing agent of bacterial culture sprinkle flavouring agent, the system of partial potassium phosphate raw materials, brewing yeast culture agent, enhancer, leavening agent, fermentation agent.

PACKING

Packed in 25 kg net wpp + pe bags with pe liner inside.

STORAGE

Store at a dry, cool and well ventilated place, away from direct sunlight.

P.S. We can also offer MKP food grade.